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**Document Number 1**

Entry 1 of 1

File: USPT

Jun 30, 1998

DOCUMENT-IDENTIFIER: US 5774233 A

TITLE: Document image processing system

**BSPR:**

According to the present invention which attains the above object, when applied to a document image processing system including a rotatable display unit having a display screen of rectangular shape, a menu screen showing menu data according to a standard format can be displayed in an erected form as well as in a constant layout and size regardless of whether the display unit is rotated in the vertical direction or the horizontal direction, so that the user can always view a similar display (that is, the menu can be always displayed in an erected form) in each of the cases where the display unit is located in its vertically oblong state and in its horizontally oblong state.

**DEPR:**

In the step 5, the layout of the menu data is determined on the basis of the displayable area (having the height Ha and the width Wa) shown in FIG. 5A when the display unit 1 is rotated to its vertical position, the displayable area (having the height Hb and the width Wb) shown in FIG. 5B when the display unit 1 is rotated to its horizontal position and the width Wc and the height Hc of each of the selection items B in the selection item display area displaying the menu data. In this case, the size of the menu display area is selected to be a maximum that can be accommodated in the area having the height Hb and the width Wa. Then, all the selection items B, B, . . . to be displayed are disposed within the size of the display area determined in the manner described above, thereby determining the menu data to be displayed. The size and layout of the menu display thus determined are kept constant regardless of whether the display unit 1 is rotated to its vertical position or its horizontal position.

**DEPR:**

In other words, FIG. 9C shows that the horizontal display shown in FIG. 9A and the vertical display shown in FIG. 9B are superposed on each other. It will be seen in FIG. 9C that the image displayed within the hatched area having the size Ha.times.Ha can be displayed in the constant shape irrespective of whether the display is rotated in its horizontal direction or its vertical direction. Therefore, when the menu shown in FIG. 10A cannot be accommodated within the extent of the hatched area shown in FIG. 9C, the size of the menu is reduced as shown in FIG. 10B until the relation Wc.ltoreq.Ha is satisfied. That is, after reducing the size of the image data until the major axis of the image data becomes smaller than the height of the display, the image data is stored in the image data memory means 70.

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